

# INTERNATIONAL SEARCH REPORT

National application No.  
PCT/KR02/02268

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7 C02F 3/06, C02F 3/10**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 A01K, B01D, C01B, C02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and applications for inventions since 1975

Korean Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS, DELPHION, PAJ, ESPACENET

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 882676A1 (NKK Corporation) 09 DECEMBER 1998 See page 6, line 37 ~ 45 ; page 7, line 38 ~ 47 ; page 11, line 8 ~ 21 ; page 13, line 36 ~ 49 See figure 10c, 13a	1, 6, 7, 17, 21, 23
Y ----- A	JP 62083093A (SHIMIZU Constr. Co., Ltd.) 16 APRIL 1987 see the whole document	1, 6, 7, 17, 21, 23 ----- 20
A	US 5387335A (ISAMU IWAI et al.) 07 FEBRUARY 1995 See column 5, line 31 ~ 44 See figure 1	16
A	WO 8602630 (TRIMMEL et al) 09 MAY 1986 See the whole document	18, 26
A	KR 98085026 (SAMSUNG HEAVY INDUSTRIES Co., Ltd.) 05 DECEMBER 1998 See abstract	9, 10, 24

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

\* Special categories of cited documents:

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search

25 AUGUST 2003 (25.08.2003)

Date of mailing of the international search report

26 AUGUST 2003 (26.08.2003)

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR02/02268

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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US 5387335 A	07-02-1995	WO 9209533 A1 US 5387335 EP 0558745 A4 CA 2096523 AA AU 6733390 A1	11-06-1992 07-02-1995 08-12-1993 22-05-1992 25-06-1992
WO 8602630	09-05-1986	NONE	
KR 98085026	05-12-1998	NONE	